Title (en)

DETECTION SYSTEM

Title (de)

NACHWEISSYSTEM

Title (fr)

SYSTEME DE DETECTION

Publication

**EP 1336089 B1 20140101 (EN)**

Application

**EP 01974483 A 20011010**

Priority

- GB 0104521 W 20011010
- GB 0028482 A 20001122

Abstract (en)

[origin: GB2369428A] A micro-fabricated detection system comprises a substrate chip 2 and a chamber 4 defined by the chip into which a fluid sample is delivered. At least one detector (10) and emitter (8) introduce light to and collect light from the sample chamber. The emitters and detectors comprise light emitting diodes and photo-diodes which both include an organic semiconductor element 12 between electrodes 14, 16. The chamber be comprise a channel along which may be arrayed (see fig 1) a plurality of emitters and detectors. The channel my be etched in the substrate to a 10-500 micron depth and 10-100 micron width. The organic emitters and detectors may be inkjet printed on to a glass of plastic substrate. The arrayed detectors may have different wavelength sensitivity by using filters, and the emitters may have filters or have a micro-cavity to tailor the emission bandwidth. The system may perform fluorescence or absorption analysis, capillary electrophoresis or high pressure liquid chromatography.

IPC 8 full level

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CPC (source: EP US)

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